

METHOD OF PRODUCING WHITE NOISE, CONTROL METHOD OF WHITE NOISE AMPLITUDE, AND DIGITAL TELEPHONE SYSTEM

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Applicant(s): DENSO CORP

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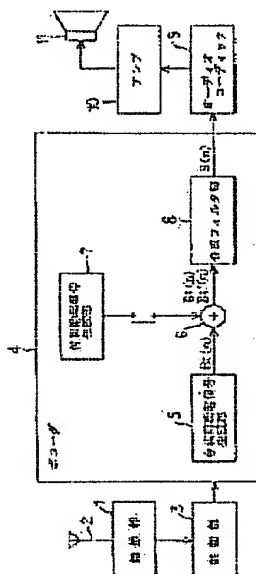
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Abstract of JP 2000081898 (A)

PROBLEM TO BE SOLVED: To realize a white noise producing method capable of preventing a jar from being generated. **SOLUTION:** When, a frame to be processed is in a frame error state, a last effective frame before the frame to be processed is full-rated or half-rated, and a mean adaptive code book gain value is less than 0.4 at the time and a mean fixed code book gain value exceeds a threshold, white noise ($S(n)$) is generated by generating an additional exciting signal by using, instead of the mean fixed code book gain, a prescribed constant with which the amplitude value of an exciting signal after synthesis ($E_t'(n)$) becomes less than a constant value, adding the additional exciting signal to an exciting signal before synthesis ($E_t(n)$) to generate the exciting signal after synthesis ($E_t'(n)$), and processing the exciting signal after synthesis ($E_t'(n)$) by synthesis-filtering operation.; Consequently, it is possible to control the amplitude of the white noise ($S(n)$) by controlling the amplitude of the exciting signal after synthesis ($E_t'(n)$) outputted from a vocoder 4, and prevent jarring noise from being generated.



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(54) METHOD OF PRODUCING WHITE NOISE, CONTROL METHOD OF WHITE NOISE AMPLITUDE, AND DIGITAL TELEPHONE SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To realize a white noise producing method capable of preventing a jar from being generated.

SOLUTION: When, a frame to be processed is in a frame error state, a last effective frame before the frame to be processed is full-rated or half-rated, and a mean adaptive code book gain value is less than 0.4 at the time and a mean fixed code book gain value exceeds a threshold, white noise ($S(n)$) is generated by generating an additional exciting signal by using, instead of the mean fixed code book gain, a prescribed constant with which the amplitude value of an exciting signal after synthesis ($Et'(n)$) becomes less than a constant value, adding the additional exciting signal to an exciting signal before synthesis ($Et(n)$) to generate the exciting signal after synthesis ($Et'(n)$), and processing the exciting signal after synthesis ($Et'(n)$) by synthesis-filtering operation.

Consequently, it is possible to control the amplitude of the white noise ($S(n)$) by controlling the amplitude of the exciting signal after synthesis ($Et'(n)$) outputted from a vocoder 4, and prevent jarring noise from being generated.

